

SpecAqua 2K PU Topcoat

Water based, aliphatic polyurethane coating for interior floors & walls

A water based, zero VOC, two component, aliphatic polyurethane coating with an ultra-smooth satin or matt haptic clear finish for interior floors & walls.

Intended Uses:

SpecAqua 2K PU Topcoat Will Adhere to Many Surfaces/Substrates Such As:

- PVC – Rigid and flexible e.g. vinyl flooring, flooring decals / prints / designs.
- Concrete – Raw, polished, screeds and decorative cement flooring.
- Epoxies or other flooring resins as a matt finish topcoat.
- Hardwood flooring, skirtings, and claddings.

SpecAqua 2K PU Topcoat is to be used where easy to clean surface area required, it is highly resistant to household and industrial chemicals, food spills and fats. The final coating provides superior hot-tire resistance and mechanical resistance.

The coating has zero VOC and is excellent for healthcare / clean room environments, no odours are emitted during installation.

Applied in multiple coatings by roller / brush / airless spray application. Suitable for residential, commercial, and industrial areas.

Properties:

- Rapid hardening time – can take light foot traffic after 8 hours.
- Excellent transparency.
- Highest level of chemical resistances.
- Zero VOC, water based.
- Excellent flow & levelling properties.
- Highly resistant to mechanical abrasion.
- Unique matt haptic finish.
- Enhance the appearance of the surface.

Chemical Resistance:

Test Chemicals	Test Duration	Test Results**
Ethanol (48%)	1 hour	4
NH4OH (10%)	1 hour	4
Water Deionized	10 days	5
Coffee	16 hours	5
Tea (1%)	16 hours	5
Red Wine	16 hours	4
Cola	16 hours	5
Na2CO3	2 min	5
Fatty Acid	10 days	5
Brake Fluid (DOT 4)	10 days	5
Skydrol	10 days	5

Technical Data:

Colour	Clear or colours
Kit Pack Size	<ul style="list-style-type: none"> • 4.2 Litre (Comp.A) • 0.8 Litre (Comp.B – PU Activator Aqua XP)
Volume Solids	42% +/-3% on clear
Typical Film Thickness	<ul style="list-style-type: none"> • 80 – 120µm DFT (Apply in 2 – 3 coats) • 40µm DFT per coat (100µm WFT per coat)
Theoretical Coverage	10.5 m ² / Litre @ 40µm DFT (per coat)
Method of Application	Short nap roller or airless spray
Pot Life After Mixing	1 hour @ 25°C
Drying Time (@ 25°C / 60% RH)	<ul style="list-style-type: none"> • Touch dry – 20 minutes • Light walk on dry – 6 hours • Minimum overcoating – 6 hours • Maximum overcoating – 24 hours • Full cure – 7 days
Application & Ground Temperature	<ul style="list-style-type: none"> • Minimum – 10°C • Maximum – 35°C • Maximum RH – 80%
Thinning	Typically, not required, but a maximum 10% water should be added to ease application or to better penetrate dense surfaces.

Advice on Application: (Maximum Substrate Humidity)

Substrate	Ambient Humidity Before & After Curing
Reinforced Concrete Floor	2 – 3%
Pumice Concrete	3 – 5%
Cementitious Screed (Depending on mixing ratio)	1.5 – 3%
Aerated Concrete Screed, Cement Bound	2.5 – 2.5%
Magnesia Flooring	8.5 – 12%
Anhydride & Gypsum Screeds	Less than 0.5%
Chipboard, Hardboard & Wooden Floors	8 – 12%

Surface Preparation:

Concrete

Ensure the surface to be coated in clean, dry within the above parameter. The substrate in most cases needs to be mechanically prepared to remove any cementitious laitance off the surfaces which may negatively affect the adhesion of the coating.

Vinyl/PVC

If the vinyl is new, clean with light detergent and water, dry the surface. Do not attempt to sand the surface as scratch marks will appear in the clear coat.

Previously Painted Surfaces or Newly Painted.

Ensure the surface is properly cured, not chalking and in sound condition. Clean the surface with diluted Hydrosolve Degreaser and water. Allow to dry.

Floor Coatings

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Application:

Mixing	<p>Stir component A, taking care not to entrain air. Stir to ensure Component A is completely uniform.</p> <p>While stirring, add the entire contents of Component B into Component A and stir continuously for 3 minutes.</p> <p>Mixed product should be used within the specified Pot Life. If used passed the recommended pot life, performance and application properties will be sacrificed.</p>
Application	<p>Roller – Ribbon & Roll Allocate enough mixed material for a measured-out surface area. Pour the mixed material in a ribbon style from edge to edge, starting at the furthestmost point.</p> <p>Using a short nap or mohair roller back roll the poured-out ribbon. Allow to dry and sand/de-nib the surface using 220 – 320 grit sandpaper. Vacuum away excess dirt.</p> <p>For the second coat, apply at 90° to the first in the exact same fashion. Allow to dry and determine if a 3rd coat is required. If required, repaint the sanding and cleaning process.</p> <p>Airless Spray A tip size of 11 – 13 thou, capable of producing a fine finish at lower the normal pressures e.g. Graco fine finish tips.</p>

Pack Size:

5 Litre.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.